Build-Out Comparison

Table 1: Build-out Summary: Comparison of Revised General Plan Build-out with the Route 28 Corridor Plan September 3, 2010 Staff Draft and October 20, 2010 PC Subcommittee Draft (Low)¹

Build-out	Office	Flex	Light Industrial (sq. ft.)	Industrial	Special Activity	Retail (sq. ft.)	Civic (sq. ft.)	Residential (dwelling unit)
Bulla-out	(sq. ft.)	(sq. ft.)	LOW FAR/Density	(sq. ft.) V Calculations ²	(sq. ft.)	Retail (Sq. 1t.)	Civic (sq. it.)	(aweiling unit)
Revised General Plan (RGP)	63,320,182	N/A	10,523,774	3,312,102	915,534	10,805,755	905,575	9,123
Route 28 Corridor Plan		-					-	
September 3, 2010								
Staff Draft	70,572,554	12,822,383	3,179,322	489,127	915,534	11,518,855	1,268,277	10,936
Difference between RGP and		Included in						
Staff Draft	7,252,372	Light Industrial	5,477,931	-2,822,975	0	713,100	362,702	1,813
Revised General Plan (RGP)	63,320,182	N/A	10,523,774	3,312,102	915,534	10,805,755	905,575	9,123
Route 28 Corridor Plan October								
20, 2010								
PC Subcommittee Draft	72,294,716	12,742,014	3,179,322	489,127	915,534	12,887,547	1,890,205	14,045
Difference between RGP and PC		Included in						
Subcommittee Draft	8,974,534	Light Industrial	5,397,563	-2,822,975	0	2,081,792	984,630	4,922

¹Build-out assumptions and rules are provided in Attachment 1. Please note that major and minor floodplains were removed from build-out calculations.

²Low floor-area-ratio/density assumptions as well as land use mix assumptions are provided in Tables 1-5 in Attachment 1.

Table 2: Build-out Summary: Comparison of Revised General Plan Build-out with the Route 28 Corridor Plan September 3, 2010 Staff Draft and October 20, 2010 PC Subcommittee Draft (High)¹

Build-out	Office (sq. ft.)	Flex (sq. ft.)	Light Industrial (sq. ft.)	Industrial (sq. ft.)	Special Activity (sq. ft.)	Retail (sq. ft.)	Civic (sq. ft.)	Residential (dwelling unit)
- 500 000	(04:10.)		HIGH FAR/Density	-	(64: 10)	Treesan (eq. 10.)	cirio (eq. iii)	(a.r.cg a)
Revised General Plan	144,118,379	N/A	10,523,774	3,312,102	1,756,068	15,426,077	1,706,149	9,973
Route 28 Corridor Plan September 3, 2010 Staff Draft	164,565,308	12,822,383	3,179,322	489,127	1,756,068	19,494,361	2,431,554	13,599
Difference between RGP and Staff Draft	20,446,929	Included in Light Industrial	5,477,931	-2,822,975	0	4,068,284	725,405	3,626
	1	<u> </u>			1		l .	
Revised General Plan	144,118,379	N/A	10,523,774	3,312,102	1,756,068	15,426,077	1,706,149	9,973
Route 28 Corridor Plan October 20, 2010 PC Subcommittee Draft	144,857,653	12,742,014	3,179,322	489,127	1,756,068	20,190,391	3,401,940	18,451
Difference between RGP and PC Subcommittee Draft	739,274	Included in Light Industrial	5,397,563	-2,822,975	0	4,764,314	1,695,791	8,478

¹Build-out assumptions and rules are provided in Attachment 1. Please note that major and minor floodplains were removed from build-out calculations.

²High floor-area-ratio/density assumptions as well as land use mix assumptions are provided in Tables 1-5 in Attachment 1.

Table 3: Revised General Plan Build-out (LOW and HIGH)¹

				Special			
			Industrial	Activity (sq.			Residential
Planned Land Use:	Office (sq. ft.)	Light Industrial (sq. ft.)	(sq. ft.)	ft.)	Retail (sq. ft.)	Civic (sq. ft.)	(dwelling unit)
					780,595 –	520,397 –	
Urban Center	2,601,984 – 5,203,968	0	0	0	1,561,190	1,040,794	1,300 – 2,150
	45,014,009 –						
Keynote Employment	107,210,907	0	0	75,000	2,306,792	105,000	1,400
					4,317,319 -		
Destination Retail	0	0	0	0	6,475,978	N/A	0
Business: Regional	7,744,620 -						
Office	19,361,549	726,058	0	0	302,524	N/A	0
Business: Light							
Industrial	4,741,822 – 6,322,429	8,851,401	0	0	790,304	N/A	0
				840,534 -	1,681,068 -	280,178 -	
TREC	2,801,779 – 5,603,558	0	0	1,681,068	3,362,135	560,356	0
Industrial	236,579	946,315	3,312,102	0	236,579	0	0
Planned Residential	0	0	0	0	0	N/A	1,494
Planned High Density							
Residential	0	0	0	0	0	N/A	355
Existing Residential	0	0	0	0	0	N/A	4,574
Neighborhood Serving							
Retail							
(Planned Residential							
North of Route 7)	179,389	0	0	0	390,575	N/A	0
	63,320,182 -			915,534 -	10,805,755 -	905,575 –	
Total	144,118,379	10,523,774	3,312,102	1,756,068	15,426,077	1,706,149	9,123 – 9,973

¹Build-out assumptions and rules are provided in Attachment 1. Please note that major and minor floodplains were removed from build-out calculations.

Table 4: September 3, 2010 Staff Draft Route 28 Corridor Plan Build-out (LOW and HIGH)¹

Proposed CPAM			Light Industrial	Industrial	Special Activity			Residential
Planned Land Use:	Office (sq. ft.)	Flex (sq. ft.)	(sq. ft.)	(sq. ft.)	(sq. ft.)	Retail (sq. ft.)	Civic (sq. ft.)	(dwelling unit)
	, , ,	· · · ·	, , , , , , , , , , , , , , , , , , ,	,	, , ,	780,595 –	520,397 –	, ,
Urban Center	2,601,984 - 5,203,968	0	0	0	0	1,561,190	1,040,794	1300 – 2,150
	7,176,434 –					2,393,634 -	467,702 –	
Mixed-Use Office ²	10,803,458	0	0	0	75,000	3,844,444	830,405	3,213 - 5,026
	21,122,645 -					2,346,961 –		
Route 28 Core	52,806,612	0	0	0	0	5,867,401	N/A	0
Route 28 Core (South of								
Sterling, East of Route	4,319,680 -							
28)	10,799,199	0	0	0	0	1,851,291	N/A	0
Route 28 Business:	28,855,677 –							
Office	72,139,193	2,705,220	0	0	0	1,127,175	N/A	0
						702,993 –		
Route 28 Business: Flex	3,514,965 – 7,029,931	9,138,910	0	0	0	878,741	N/A	0
					840,534 -	1,681,068 –	280,178 -	
TREC	2,801,779 – 5,603,558	0	0	0	1,681,068	3,362,135	560,356	0
						244,563 -		
Industrial	0	978,253	3,179,322	489,127	0	611,408	0	0
Planned Residential	0	0	0	0	0	0	N/A	1,494
Planned High Density								
Residential	0	0	0	0	0	0	N/A	355
Existing Residential	0	0	0	0	0	0	N/A	4,574
Neighborhood Serving								
Retail								
(Planned Residential								
North of Route 7)	179,389	0	0	0	0	390,575	N/A	0
	70,572,554 –				915,534 –	11,518,855 –	1,268,277 –	
Total	164,565,308	12,822,383	3,179,322	489,127	1,756,068	19,494,361	2,431,554	10,936 – 13,599

¹Build-out assumptions and rules are provided in Attachment 1. Please note that major and minor floodplains were removed from build-out calculations.

²Additional nonresidential and residential development may be achieved if unmet housing needs objectives are met per the Route 28 Corridor policies.

Table 5: October 20, 2010 Planning Commission Subcommittee Draft Route 28 Corridor Plan Build-out (LOW and HIGH)¹

Proposed CPAM			Light Industrial	Industrial	Special Activity			Residential
Planned Land Use:	Office (sq. ft.)	Flex (sq. ft.)	(sq. ft.)	(sq. ft.)	(sq. ft.)	Retail (sq. ft.)	Civic (sq. ft.)	(dwelling unit)
			,			780,595 –	520,397 –	· · · · · ·
Urban Center	2,601,984 – 5,203,968	0	0	0	0	1,561,190	1,040,794	1,300 - 2,150
	13,395,713 -					4,881,346 -	1,089,630 -	
Mixed-Use Office ²	20,507,319	0	0	0	75,000	7,725,988	1,800,791	6,322 -9,878
	19,628,267 -					2,180,919 -		
Route 28 Core	32,713,778	0	0	0	0	3,634,864	N/A	0
Route 28 Core (South of								
Sterling, East of Route								
28)	2,174,202 – 3,623,669	0	0	0	0	931,801	N/A	0
Route 28 Business:	27,998,417 -							
Office	69,996,041	2,624,852	0	0	0	1,093,688	N/A	0
						702,993 –		
Route 28 Business: Flex	3,514,965 – 7,029,931	9,138,910	0	0	0	878,741	N/A	0
					840,534 -	1,681,068 -	280,178 -	
TREC	2,801,779 – 5,603,558	0	0	0	1,681,068	3,362,135	560,356	0
						244,563 –		
Industrial	0	978,253	3,179,322	489,127	0	611,408	0	0
Planned Residential	0	0	0	0	0	0	N/A	1,494
Planned High Density								
Residential	0	0	0	0	0	0	N/A	355
Existing Residential	0	0	0	0	0	0	N/A	4,574
Neighborhood Serving								
Retail								
(Planned Residential								
North of Route 7)	179,389	0	0	0	0	390,575	N/A	0
	72,294,716 –				915,534 –	12,887,547 –	1,890,205 -	
Total	144,857,653	12,742,014	3,179,322	489,127	1,756,068	20,190,391	3,401,940	14,045 – 18,451

¹Build-out assumptions and rules are provided in Attachment 1. Please note that major and minor floodplains were removed from build-out calculations.

²Additional nonresidential and residential development may be achieved if unmet housing needs objectives are exceeded per the Route 28 Corridor policies.

ATTACHMENT 1 Route 28 CPAM Build-out

Build-Out

Build-out has been calculated based on (1) existing policies in the <u>Revised General Plan</u>, (2) the September 3, 2010 Staff Draft Route 28 Corridor Plan policies, and (3) the Planning Commission Subcommittee Draft through October 20, 2010 using the land use mix assumptions in Tables 1 and 3 and the densities provided in Tables 2, 4, and 5 on pages 3 - 7.

On October 13, 2010 and October 20, 2010 the Planning Commission Subcommittee (PC Subcommittee) discussed:

- Expanding the areas where a Mixed-Use Office Center may be located within the Route 28 Corridor;
- Reducing the maximum floor-area-ratios (FARs) for the northern and central Mixed-Use Office Centers from a maximum 2.0 FAR to a maximum 1.0 FAR with the potential to achieve a 1.5 FAR with incentives;
- Reducing the southern Mixed-Use Office Center's maximum FAR to a 1.5 with the potential to go up to a 2.0 FAR with incentives; and
- Reducing the maximum FARs for the Route 28 Core from a maximum 1.5 FAR to a maximum 1.0 FAR.

Rules

The following rules were used when calculating buildable area for both the Route 28 Corridor Plan build-outs and the Revised General Plan build-out:

- General land area occupied by each use was used for build-out purposes rather than a parcel specific analysis.
- For the purposes of build-out, the following were removed from the calculations:
 - Major and minor floodplains;
 - Route 28 right-of-way;
 - Government owned properties;
 - County Parks;
 - The W&OD Trail; and
 - Loudoun Water and Redskins Park
- All areas were assumed to develop per the land use mix assumptions below except for:
 - Assumed approved development for Kincora (ZMAP 2008-0021 and SPEX 2008-0054);
 - o Existing residential developments were assumed to retain their existing densities;
 - Vacant planned High Density Residential and Residential areas were assumed to develop based on the highest possible land use densities as recommended by the Plan Victoria Station – 10 dwelling units per acre; Pearson Reserve – 8 dwelling units per acre; and Residential areas – 4 dwelling units per acre);
 - Planned Residential north of Route 7 (Countryside/Parc City Centre) was assumed to retain the existing office and retail square footages;

- Dwelling units were calculated based on 1,000 square feet per unit.
- Staff calculated build-out for the Mixed-Use Office Centers under the PC Subcommittee recommendations assuming the maximum FAR with incentives is achieved.
- While developments will be expected to provide a minimum amount of Parks and Open Spaces and Public
 and Civic uses, the land area occupied by these uses has been used for density calculations, except for when
 calculating the mix of uses for the Urban Center, Mixed-Use Office Center, and the TREC which are all
 expected to provide public and civic buildings.
- Commercial retail and service uses were assumed to develop at a maximum 0.25 FAR in areas where these uses are not expected to be predominately vertically integrated with other uses, due to the higher parking requirements needed for these types of uses.
- Commercial retail and service uses were assumed to develop at a maximum 0.6 FAR in the Route 28 Core, east of Route 28, south of Sterling Boulevard where a higher concentration of hotel and entertainment uses are envisioned.
- Flex, light industrial, and industrial uses were assumed to develop at a maximum 0.2 FAR due to buildings typically being one to two-stories for these types of uses, resulting in a less intense development.

Table 1: Revised General Plan Land Use Mix Assumptions¹

		Light					
	Office	Industrial	Industrial	Special Activity	Retail ²	Residential	Civic
Urban Center ³	50%				15%	25%	10%
Keynote Employment	95%				5%		
Destination Retail					100%		
Business: Regional Office	80%	15%			5%		
Business: Light Industrial	25%	70%			5%		
TREC	50%			15%	30%		5%
Industrial	5%	20%	70%		5%		

¹The floor area ratio is based on the total acreage of the site, while the Plan's land use mix tables are based on the area of the site occupied by the use. For instance, the Plan anticipates that Keynote Employment uses will occupy no more than 85% of the site with the remaining 15% accounting for parks and open space and public and civic uses. However, when calculating the maximum FAR potential for the site an applicant can use the gross acreage of the site allowing for 100% of the FAR to be allotted to Keynote Employment uses. Therefore, staff has used a similar evaluation when determining the build-out potential.

²The maximum potential for retail uses within areas planned for Keynote Employment, Business, and Industrial uses is limited to 5% of the nonresidential square footage per the Retail Plan.

³The land use mix percentages for office, residential, and retail land uses are similar to those proposed with ZMAP 2007-0001, Dulles Town Center

Table 2: Revised General Plan FAR/Dwelling Unit Assumptions

	Low	High
		2.0 FAR Nonresidential
		Maximum Residential permitted
	1.0 FAR Nonresidential	without going over 24 dwelling units
	Maximum Residential permitted	per acre over the gross acreage of
	without going over 25% of the total	the site (note: if calculated similar
	square footage (1,000 square feet	to the low calculations the dwelling
Urban Center	per unit)	units exceed 24 du/acre)
	0.4 FAR (Retail 0.25 FAR)	1.0 FAR (Retail 0.25 FAR)
	Assumed approved nonresidential	Assumed approved nonresidential
	and residential square footage	and residential square footage
	approved with SPEX 2008-0054 and	approved with SPEX 2008-0054 and
Keynote Employment	ZMAP 2008-0021, Kincora.	ZMAP 2008-0021, Kincora.
Destination Retail	0.2 FAR	0.3 FAR
	0.4 FAR (Light Industrial 0.2	1.0 FAR (Light Industrial 0.2
Business: Regional Office	FAR/Retail 0.25 FAR)	FAR/Retail 0.25 FAR)
	0.3 FAR (Light Industrial 0.2	0.4 FAR (Light Industrial 0.2
Business: Light Industrial	FAR/Retail 0.25 FAR)	FAR/Retail 0.25 FAR)
TREC	1.0 FAR overall	2.0 FAR overall
Industrial	0.2 FAR	0.2 FAR
	Assumed developed dwelling units	
	on developed areas and 4 dus/acre	
	on vacant or underdeveloped areas.	
	Assumed existing office and retail	
	square footage for the planned	
	residential area north of Route 7	
Planned Residential	(Countryside and Parc City Centre).	Same as low calculation
	Assumed 10 du/acre for Victoria	
	Station and 8 du/acre for Pearson	
Planned High Density Residential	Reserve	Same as low calculation
Existing Residential	Assumed approved dwelling units	Same as low calculation

Table 3: Route 28 Corridor Plan
September 3, 2010 Staff Draft and October 20, 2010 Planning Commission Subcommittee Draft Land Use Mix Assumptions

		•	_					•
			Light		Special			
	Office	Flex	Industrial	Industrial	Activity	Retail	Residential	Civic
Urban Center ¹	50%					15%	25%	10%
Mixed Use Office	50%					20%	25%	5%
Route 28 Core	90%					10%		
Route 28 Core								
(South of Sterling Blvd/East								
of Route 28) ²	70%					30%		
Route 28 Business (Office) ³	80%	15%				5%		
Route 28 Business (Flex) ³	25%	70%				5%		
TREC	50%				15%	30%		5%
Industrial		20%	65%	10%		5%		

¹The land use mix percentages for office, residential, and retail land uses are similar to those proposed with ZMAP 2007-0001, Dulles Town Center

²Assumed a higher percentage of retail uses south of Sterling Boulevard, east of Route 28 due to the higher amount of hotel uses envisioned in this area.

³Office percentages based on NAIOP definition which provides that flex uses typically have office percentages ranging from 25% to 75%.

Table 4: Route 28 Corridor Plan FAR/Dwelling Unit Assumptions September 3, 2010 Staff Draft

	Low	High
		2.0 FAR Nonresidential
		Maximum Residential permitted
	1.0 FAR Nonresidential	without going over 24 dwelling units
	Maximum Residential permitted	per acre over the gross acreage of
	without going over 25% of the total	the site (note: if calculated similar to
	square footage (1,000 square feet	the low calculations the dwelling
Urban Center	per unit)	units exceed 24 du/acre)
	1.0 FAR overall (dwelling units	2.0 FAR overall (dwelling units
	calculated based on 1,000 square	calculated based on 1,000 square
	feet per unit). Northern Mixed-Use	feet per unit). Northern Mixed-Use
	Office Center assumed approved	Office Center assumed approved
	nonresidential and residential square	nonresidential and residential square
	footage approved with SPEX 2008-	footage approved with SPEX 2008-
Mixed Use Office	0054 and ZMAP 2008-0021, Kincora.	0054 and ZMAP 2008-0021, Kincora.
		1.5 FAR (South of Sterling Blvd/East
Route 28 Core	0.6 FAR	of Route 28 – Retail 0.6 FAR)
Route 28 Business (Office)	0.4 FAR (Flex 0.2 FAR/Retail 0.25 FAR)	1.0 FAR (Flex 0.2 FAR/Retail 0.25 FAR)
Route 28 Business (Flex)	0.2 FAR	0.4 FAR (Flex 0.2 FAR/Retail 0.25 FAR)
TREC	1.0 FAR	2.0 FAR
Industrial	0.2 FAR	0.2 FAR
	Assumed developed dwelling units on	
	developed areas and 4 dus/acre on	
	vacant or underdeveloped areas.	
	Assumed existing office and retail	
	square footage for the planned	
	residential area north of Route 7	
Planned Residential	(Countryside and Parc City Centre).	Same as low calculation
	Assumed 10 du/acre for Victoria	
	Station and 8 du/acre for Pearson	
Planned High Density Residential	Reserve	Same as low calculation
Existing Residential	Assumed approved dwelling units	Same as low calculation

Table 5: Route 28 Corridor Plan FAR/Dwelling Unit Assumptions October 20, 2010 Planning Commission Subcommittee Draft

	Low	High
		2.0 FAR Nonresidential
		Maximum Residential permitted
	1.0 FAR Nonresidential	without going over 24 dwelling units
	Maximum Residential permitted	per acre over the gross acreage of
	without going over 25% of the total	the site (note: if calculated similar to
	square footage (1,000 square feet	the low calculations the dwelling
Urban Center	per unit)	units exceed 24 du/acre)
	Northern – assumed approved	
	nonresidential and residential square	
	footage approved with SPEX 2008-	
	0054 and ZMAP 2008-0021, Kincora	Northern – assumed approved
		nonresidential and residential square
		Central – 1.5 FAR overall (dwelling
		units calculated based on 1,000
		square feet per unit).
	Central and Southern - 1.0 FAR	Southern – 2.0 FAR overall (dwelling
	overall (dwelling units calculated	units calculated based on 1,000
Mixed Use Office	based on 1,000 square feet per unit)	square feet per unit).
		1.0 FAR (South of Sterling Blvd/East
Route 28 Core	0.6 FAR	of Route 28 – Retail 0.6 FAR)
Route 28 Business (Office)	0.4 FAR (Flex 0.2 FAR/Retail 0.25 FAR)	1.0 FAR (Flex 0.2 FAR/Retail 0.25 FAR)
Route 28 Business (Flex)	0.2 FAR	0.4 FAR (Flex 0.2 FAR/Retail 0.25 FAR)
TREC	1.0 FAR	2.0 FAR
Industrial	0.2 FAR	0.2 FAR
	Assumed developed dwelling units on	
	developed areas and 4 dus/acre on	
	vacant or underdeveloped areas.	
	Assumed existing office and retail	
	square footage for the planned	
	residential area north of Route 7	
Planned Residential	(Countryside and Parc City Centre).	Same as low calculation
	Assumed 10 du/acre for Victoria	
	Station and 8 du/acre for Pearson	
Planned High Density Residential	Reserve	Same as low calculation
Existing Residential	Assumed approved dwelling units	Same as low calculation